Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (currently amended) An electronic camera, comprising:

a multi-mode image sensor having an array of light sensitive elements, wherein the sensor provides an output signal derived from the array, and wherein the output signal has a transfer function that includes a normal sensitivity region, a highlight sensitivity region, and a breakpoint between the regions; and

a correction circuit for correcting differences between breakpoints of the transfer function, wherein the differences are caused by different light sensitive elements of the array, and wherein the correction circuit includes at least one lookup table, wherein the at least one lookup table has an input to identify a plurality of particular light sensitive elements of the array, and wherein the at least one lookup table has an output to provide a same cluster identifier for each of the plurality of particular light sensitive elements.

2. (original) An electronic camera as recited in claim 1, wherein the correction circuit includes at least one lookup table, wherein the at least one lookup table has an input to identify a particular light sensitive element of the array, and wherein the at least one lookup table has an output to provide a correction value.

3. (cancelled)

4. (currently amended) A method for improving the highlight reproduction of an imaging system, comprising:

providing a multi-channel image of a scene using a multi-mode image sensor;

identifying highlight regions in the image;

calculating flare intensity values for the image using ~~the locations of the highlight regions~~ an equation that is a function of the distance from at least one highlight region; and

subtracting the flare intensity values from the image.

5. (cancelled)

6. (cancelled)

7. (cancelled)

8. (cancelled)

9. (cancelled)

10. (cancelled)

11. (new) A method for improving the highlight reproduction of an imaging system, comprising:

providing a multi-channel image of a scene using a multi-mode image sensor;

identifying highlight regions in the image;

calculated flare intensity values for the image using an equation that is a sum of the functions of the distances from a plurality of highlight regions; and

subtracting the flare intensity values from the image.